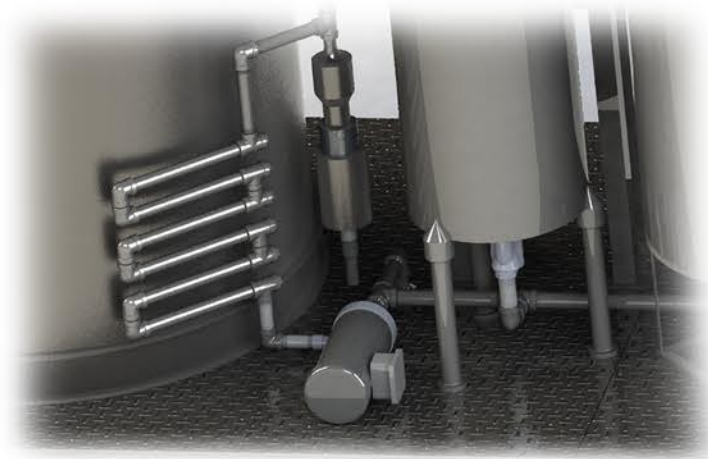


Team Liquid Gold

2014-15 Biodiesel Reactor

Goal: Bring the University of Idaho BAE Biodiesel Facilities up to a state of the art condition, with capabilities to produce high quality biofuel in a safe and quick manner.



Heating and Agitation:
Recirculation, heating and mixing using an on-demand electric heating supply and implementing sonication for high quality mixing.



Tank Lid:
Stainless steel enclosure with dynamic entry port and safety observation window. Includes electric and hydraulic mechanical mixers.



Proposed Future System

The Team



Andrew Engle



Brian Hanson

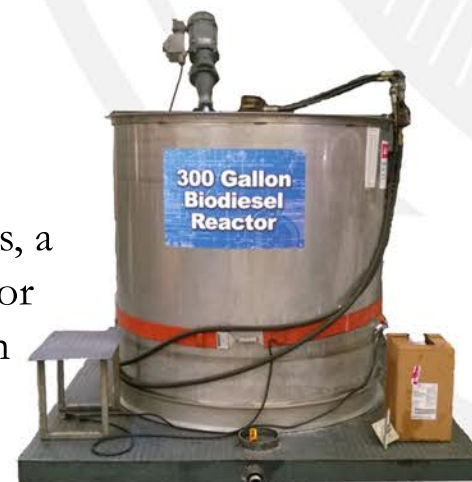


Connor Saxe



Gene Staggs

Conventional System:
Current system lacks any controls, a safe way to reduce methanol vapor exposure, and has a slow reaction rate.



System Controls:
Seperate stainless steel vessels with logical valve control units for automation of mixing ingrediants. Improves safety and control over the system.

